

M1 – 4 digit digital panel meter in 96x24 mm (BxH)

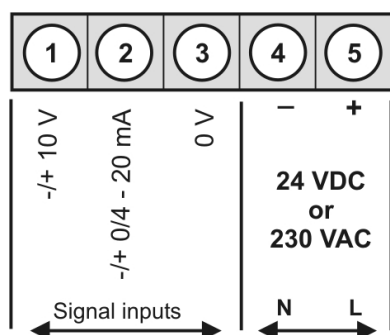
Standard signals 0/4-20 mA, 0-10 VDC, optional 50 VDC, 100 VDC

- red display of -1999...9999 digits (optional green, orange or blue display)
- minimal installation depth: 57 mm without plug-in terminal
- adjustment via factory default or directly on the sensor signal
- min/max-value recording
- 10 adjustable support points
- display flashing at threshold exceedance / undershooting
- navigation keys for the recall of min/max-values or limit value corrections during operation
- tara-function
- programming interlock via access code
- protection class IP65 at the front
- plug-in terminal
- accessories: pc-based configuration-kit PM-TOOL with CD & USB adapter
- on request: devices for working temperatures of -40°C...+70°C



ORDER NUMBER
(without options)

• Direct current, direct voltage



Supply 230 VAC

M1-3VR4B.0001.570xD

Supply 24 VDC

M1-3VR4B.0001.770xD

• Order key options

M	1-	3	V	R	4	B.	0	0	0	1.	5	7	0	x	D
M	1-	3	V	R	4	B.	0	0	0	1.	7	7	0	x	D

	S100 to 100 VDC, measuring error 0.5% of final value
	S260 to 50 VDC, measuring error 0.5% of final value
1	without keypad, operation via PM-TOOL
X	Other voltage supplies on request!
B	Blue
G	Green
Y	Orange

Please state physical unit in order, e.g. m/min.

• Parameterisation software

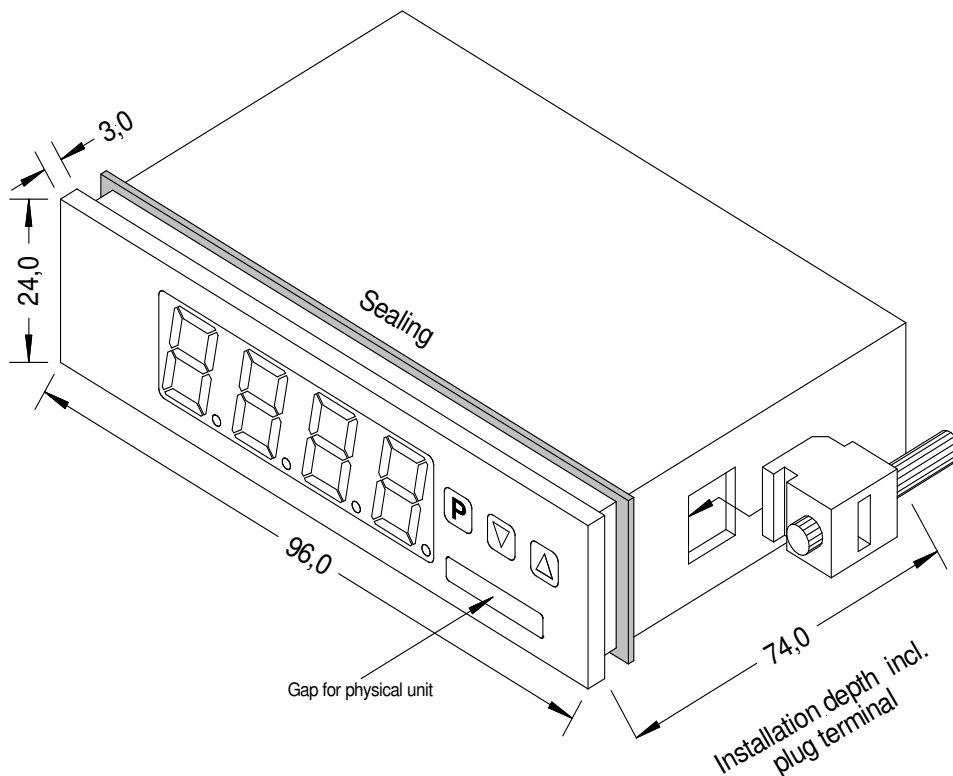
PC based configuration software PM-Tool for devices without keypad, for a simple adjustment of standard devices, incl. CD & USB-adapter. Programming happens via an interface on the back.

PM-TOOL-MUSB4

• Technical data

Dimension	Housing	B96 x H24 x D57 mm (including plug-in terminal, D= 74 mm)	
	Panel cut-out	92.0 ^{+0.8} x 22.2 ^{+0.3} mm	
	Fixing	screw elements for insulation thickness up to 3 mm	
	Housing material	PC Polycarbonate, black	
	Sealing material	EPDM, 65 Shore, black	
	Protection class	at the front IP65 standard, back side IP00	
	Weight	approx. 50 g	
Display	Connection	plug-in terminal; line cross-section up to 2.5 mm ²	
	Display	4-digit	
	Digit height	14 mm	
	Segment colour	red (standard), optional available in green, blue or orange	
	Display range	-1999 to 9999	
	Setpoints	optical display flashing	
	Overflow	horizontal bars at the top	
Underflow	horizontal bars at the bottom		
Display time/ Measuring time	0.1 to 10.0 seconds		
Measuring input	Span	-5...80 mV	/ -10...180 mV
	Measuring range	0...60 mV	/ 0...150 mV
	Input resistance	Ri at ~12 kΩ	/ Ri at ~30 Ω
	Measuring fault	0.2% of measuring range, ± 1 digit	/ 0.2% of measuring range, ± 1 digit
	Temperature drift	100 ppm/K	
	Measuring time	0.1 ... 10.0 seconds	
	Measuring principle	U/F-conversion	
Resolution	approx. 18 bit at 1 sec measuring time		
Power pack	Supply	230 VAC ±10 % (max. 3 VA)	
		24 VDC ±10 %, galvanic isolated (max. 1 VA)	
Memory	EEPROM	Data life ≥ 100 years at 25°C	
Ambient conditions	Working temperature	0°C to +60°C	
	Storing temperature	-20°C to +80°C	
	Climatic density	relative humidity 0-85% on years average without dew	
CE-sign	Conformity to directive 2014/30/EU		
EMV	EN 61326, EN 55011		
Safety standard	According to low voltage directive 2014/35/EU, EN 61010; EN 60664-1		

Housing:



• Ordering code M1

	M	1-	3	V	R	4	B.	0	0	0	1.	7	7	0	x	D	
Basic type M-Line																	S100 Measuring input 100 VDC S260 Measuring input 50 VDC
Installation depth 74 mm incl. plug-in terminal																	Dimension D physical unit (free selectable)
Housing size 96 x 24 x 57 mm																	Version x internal version
Display type V, A																	Switching points 0 no switching points
Display colours Blue Green Red Orange																	Protection class 1 without keypad, operation via PM-TOOL 7 IP65 / plug-in terminal
Number of digits 4-digit																	Supply voltage 5 230 VAC 7 24 VDC galv. isolated
Digit height 14 mm																	Measuring input 1 Direct voltage, direct current
Interface without																	Analog output 0 without
																	Sensor supply 0 without